# VGN-TZ290NAN

## VAIO® TZ Series Notebook PC

## Specifications

### General

Computer Type: Notebook
Type of Use: Ultra Portable
Action Buttons: AV Mode (DVD/CD Instant On)
Play/Pause, Stop, Rewind, Fast Forword, Eject, Wireless On/Off
Pointing Device: Electro-Static touch pad
Security: Biometric Fingerprint Sensor
Trusted Platform Module (TPM) TCG Ver.1.2 compliant

### Hardware

Keyboard: QWERTY (82 keys with 1.7mm stroke and 17mm pitch)
Camera: Built-in MOTION EYE® camera and microphone

### Processor

Type: Intel® Core™ 2 Duo Processor U7700
Speed: 1.33GHz[1]
Front Side Bus Speed: 533MHz
L2 Cache: 2MB
Technology: Intel® Centrino® Processor Technology[14]

### Memory

Type: DDR2
Installed: 2GB (2GBx1)
Maximum: 2GB
Speed: 533MHz

### Hard Drive

Capacity: 120GB[2]
Speed: 4200rpm
Interface: Ultra ATA
Impact Protection: G-Sensor™ Shock Protection - Hard Disk Drive Protection

### Optical Drive #1

DVD+R DL Write: 4x max.
DVD+R Write: 8x max.
DVD+RW Write: 8x max.
DVD-R Write: 8x max.
DVD-RW Write: 6x max.
CD-R Write: 24x max.
CD-RW Write: 16x max.
DVD±RW: Yes[6] (DVD±R DL/DVD±RW/DVD-RAM Drive)
CD Read: 24x max.
DVD Read: 8x max.
DVD-RAM Write: 5x max.
DVD-R DL Write: 4x max.
DVD-RAM Read: 5x max.

### Expansion Slots

Multimedia Card Reader: Memory Stick PRO™ (with MagicGate® functionality) Media Slot
One Secure Digital (SD™ memory card) Media Slot
One ExpressCard® /34 Slot

### Audio

Sound System: Windows® sound system compatible
Dolby® Headphone
Dolby® Virtual Speaker
Built-in stereo speakers

### Display

Screen or Display Technology: WXGA LCD
Screen Size: 11.1" Razor-Thin Panel[12]
LED backlight for brilliant colors and clarity
Resolution: 1366x768
XBRITE-HiColor™ Technology: Yes

### Graphics

Processor: Intel® Graphics Media Accelerator 950 with Total Available Graphics Memory of 256MB (max.)[13]
Chipset: Intel® 945GMS
Interface: VGA out w/ Smart Display Sensor

### Inputs and Outputs

Ethernet Port: 1
Headphone Jack: 1
i.LINK® Interface: 1 (4-pin) interface[7] (IEEE 1394)
Memory Stick® Media Slot: 1
Modem Jack: 1
Secure Digital Slot: 1
Microphone Input: 1
Port Replicator Connector(s): 1 (Bottom)
USB Port(s): 2 (2.0 compliant)
VGA Output(s): 1
DC-In: 1

### Networking/Modem

Ethernet Protocol: Fast Ethernet (RJ-45)
Ethernet Speed: 10Base-T/100Base-TX/1000Base-T
Modem Type: Integrated V.92/V.90 modem (RJ-11)
Wireless LAN: Intel® PRO/Wireless 4965AGN Network Connection (802.11a/b/g/n)[4]
Wireless WAN: Sprint® Mobile Broadband service[17]
Bluetooth® Technology: Integrated Bluetooth® Technology[5]

### Power

Battery Type: Standard Capacity Lithium-ion Battery (VGP-BPL11)
Estimated Battery Life: 4.5-8.5 hours[8] (Standard Capacity Battery)
7.0-13.0 hours[8] (Large Capacity Battery)
Power Requirements: 68W+10%

### Software

Operating System: Genuine Microsoft® Windows Vista® Business
Internet Services: AOL® 90-Day Risk Free Trial - New Users Only
Anti-Virus and Recovery Software: Norton 360™ All-In-One Security 60-day Trial
Supplied Software: Microsoft® Works SE 9.0 w/ 60-Day Trial Version of Microsoft® Office Small Business 2007[11]
Sony® Original Software: Click to Disc® - DVD Creation
SmartWi™ Technology
LocationFree Player® Software
*Please access VAIO® Help and Support from your PC for a complete list of software and trial applications.

### Service and Warranty Information

Limited Warranty: 1 Year[9]
Telephone Support: 1 year (toll-free assistance, available 24-hours, 7-days-a-week)[10]
Online and Email Support: Support available from http://www.esupport.sony.com/EN/VAIO

### Dimensions

Weight: 2.65 lbs[15] with Standard Battery
Measurements: 10.9"(W) 0.8" - 1.17"(H) 7.8"(D)[15]

### Supplied Accessories

Standard Capacity Lithium-ion Battery (VGP-BPL11)
AC Adapter (VGP-AC16V13)
Power Cord
Cleaning cloth

### Optional Accessories

Port Replicator (VGP-PRTZ1)
Large Capacity Battery (VGP-BPX11)
Additional standard battery (VGP-BPL11)
VAIO® Black Leather Carrying Case (VGP-CKTZ2/B)
Stick AC Adapter (VGP-AC16V10)
Additional AC adapter(VGP-AC16V13)
Bluetooth® Presentation Controller (VGP-BRMP10)
Privacy Filter (VGP-FL13)
Bluetooth® Laser Mouse (VGP-BMS33/B)
USB Portable Speaker (VGP-USP1)
Leather Notebook Cover (VGP-CVT1/T)
100GB Portable Hard Drive with Wireless Security (VGP-UHDM10/B)

Color: Champagne
UPC Code: 027242737921

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Measured at its narrowest point.
4. Requires a compatible 802.11a or 802.11b or 802.11g or 802.11n access point. Some functionality may require Internet services, which may require a fee.
5. Interoperability among Bluetooth devices varies.
6. DVD Media/Formats are not universally compatible.
7. i.LINK is a trademark of Sony used only to designate products containing an IEEE 1394 connector. All products with i.LINK connector may not communicate with each other.
8. Actual battery life may vary upon usage patterns, product settings, battery and environmental conditions. Upper battery range tested using device for music play-back. Battery life will be shorter when using the Instant Mode features.
9. See actual Limited Warranty for details. For a copy of Sony's warranty, please visit www.esupport.sony.com, call toll-free 888-476-6972 (888-4SONYPC), or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
10. For certain third party software applications, Sony provides first level Phone Support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
11. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instructions presented during setup and paying the required fees.
12. Viewable area measured diagonally.
13. Total Available Graphics Memory refers to the new Windows Vista classification of graphics memory, which is the Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory varies depending on the operating condition and system memory size.
14. VAIO TZ uses Mobile Intel® 945GMS Express Chipsets
15. Non-metric weights and measures are approximate and may vary.
16. Internet connection required. Some features may rely on internet service which may require a fee.
17. Subscription with Sprint® Mobile Broadband high-speed EV-DO service required. See www.sony.com/sprint for complete offer details, price plans, service terms and conditions, and coverage map. Click the Sprint icon on your BX Series desktop or call 1-877-275-VAIO (8246) for service activation

Computer Interface: The computer industry lacks standards, and therefore, there are a multitude of varying software packages and add-on hardware options. This personal computer is not manufactured to operate any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned in this document. Sony hereby disclaims any representations or warranty that this product is compatible with any combination of products you may choose to connect. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony Notebook Computer are subject to change without notice. Preinstalled software may not be identical to retail versions or have all documentation. This product meets the standards of the International Energy Star Program for energy efficiency. Features and specifications are subject to change without notice.
Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).
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